

# Takeharu Nagai

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

210  
papers

14,701  
citations

51  
h-index

120  
g-index

231  
ext. papers

16,760  
ext. citations

6.7  
avg, IF

6.26  
L-index

#	Paper	IF	Citations
210	Live Imaging of cAMP Signaling in <i>D. discoideum</i> Based on a Bioluminescent Indicator, Nano-lantern (cAMP).. <i>Methods in Molecular Biology</i> , <b>2022</b> , 2483, 231-240	1.4	
209	Structure-based analysis and evolution of a monomerized red-colored chromoprotein from the <i>Olindias formosa</i> jellyfish.. <i>Protein Science</i> , <b>2022</b> , 31, e4285	6.3	
208	Method for Measuring Bioactive Molecules in Blood by a Smartphone Using Bioluminescent Ratiometric Indicators. <i>Methods in Molecular Biology</i> , <b>2022</b> , 219-226	1.4	
207	Hyperspectral two-photon excitation microscopy using visible wavelength. <i>Optics Letters</i> , <b>2021</b> , 46, 37-40		2
206	Development of FRET-based indicators for visualizing homophilic trans interaction of a clustered protocadherin. <i>Scientific Reports</i> , <b>2021</b> , 11, 22237	4.9	0
205	Stepwise synaptic plasticity events drive the early phase of memory consolidation. <i>Science</i> , <b>2021</b> , 374, 857-863	33.3	5
204	A novel petal up-regulated promoter analysis in by using bioluminescence reporter gene. <i>Plant Biotechnology</i> , <b>2021</b> , 38, 197-204	1.3	0
203	Multicolor Bioluminescence Imaging of Subcellular Structures and Multicolor Calcium Imaging in Single Living Cells. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2350, 229-237	1.4	1
202	A photoswitchable fluorescent protein for hours-time-lapse and sub-second-resolved super-resolution imaging. <i>Microscopy (Oxford, England)</i> , <b>2021</b> , 70, 340-352	1.3	2
201	Ratiometric Bioluminescent Indicator for Simple and Rapid Diagnosis of Bilirubin. <i>ACS Sensors</i> , <b>2021</b> , 6, 889-895	9.2	5
200	Enhanced brightness of bacterial luciferase by bioluminescence resonance energy transfer. <i>Scientific Reports</i> , <b>2021</b> , 11, 14994	4.9	3
199	Visible-Wavelength Multiphoton Activation Confocal Microscopy. <i>ACS Photonics</i> , <b>2021</b> , 8, 2666-2673	6.3	
198	Exploring rare cellular activity in more than one million cells by a transscale scope. <i>Scientific Reports</i> , <b>2021</b> , 11, 16539	4.9	0
197	A highly-sensitive genetically encoded temperature indicator exploiting a temperature-responsive elastin-like polypeptide. <i>Scientific Reports</i> , <b>2021</b> , 11, 16519	4.9	1
196	Ratiometric Bioluminescent Indicator for a Simple and Rapid Measurement of Thrombin Activity Using a Smartphone. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 13520-13526	7.8	2
195	Genetically Encoded Photosensitizer for Destruction of Protein or Cell Function. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1293, 265-279	3.6	1
194	Method for Detecting Emission Spectral Change of Bioluminescent Ratiometric Indicators by a Smartphone. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2274, 295-304	1.4	2

193	Smartphone-Based Portable Bioluminescence Imaging System Enabling Observation at Various Scales from Whole Mouse Body to Organelle. <i>Sensors</i> , <b>2020</b> , 20,	3.8	6
192	Bioluminescent Ratiometric Indicator for Analysis of Water Hardness in Household Water. <i>Sensors</i> , <b>2020</b> , 20,	3.8	2
191	Hierarchical Development of Motile Polarity in Durotactic Cells Just Crossing an Elasticity Boundary. <i>Cell Structure and Function</i> , <b>2020</b> , 45, 33-43	2.2	3
190	What is the Most Important Thing for Life. <i>Seibutsu Butsuri</i> , <b>2020</b> , 60, 359-361	0	
189	Development of a Wireless Brain Activity Recording Method Based on Bioluminescence. <i>Seibutsu Butsuri</i> , <b>2020</b> , 60, 117-120	0	
188	Hyperspectral fluorescence imaging by using visible-wavelength two-photon excitation <b>2020</b> ,		1
187	LC3 lipidation is essential for TFEB activation during the lysosomal damage response to kidney injury. <i>Nature Cell Biology</i> , <b>2020</b> , 22, 1252-1263	23.4	42
186	A simple microfluidic device for live-imaging of the vertical section of epithelial cells. <i>Analyst, The</i> , <b>2020</b> , 145, 667-674	5	3
185	Palmitoylated CKAP4 regulates mitochondrial functions through an interaction with VDAC2 at ER-mitochondria contact sites. <i>Journal of Cell Science</i> , <b>2020</b> , 133,	5.3	7
184	Highly Biocompatible Super-resolution Imaging: SPoD-OnSPAN. <i>Neuromethods</i> , <b>2020</b> , 229-244	0.4	1
183	Acid-Tolerant Reversibly Switchable Green Fluorescent Protein for Super-resolution Imaging under Acidic Conditions. <i>Cell Chemical Biology</i> , <b>2019</b> , 26, 1469-1479.e6	8.2	7
182	Imaging local brain activity of multiple freely moving mice sharing the same environment. <i>Scientific Reports</i> , <b>2019</b> , 9, 7460	4.9	8
181	Significance of PGR5-dependent cyclic electron flow for optimizing the rate of ATP synthesis and consumption in Arabidopsis chloroplasts. <i>Photosynthesis Research</i> , <b>2019</b> , 139, 359-365	3.7	5
180	Survey on frontiers of language and robotics. <i>Advanced Robotics</i> , <b>2019</b> , 33, 700-730	1.7	17
179	Genetically Encoded Fluorescence/Bioluminescence Bimodal Indicators for Ca Imaging. <i>ACS Sensors</i> , <b>2019</b> , 4, 1825-1834	9.2	14
178	Visible-wavelength two-photon excitation microscopy with multifocus scanning for volumetric live-cell imaging. <i>Journal of Biomedical Optics</i> , <b>2019</b> , 25, 1-5	3.5	3
177	Fluorescent Protein-Based Indicators for Functional Super-Resolution Imaging of Biomolecular Activities in Living Cells. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	10
176	Simultaneous monitoring of Ca responses and salivary secretion in live animals reveals a threshold intracellular Ca concentration for salivation. <i>Experimental Physiology</i> , <b>2019</b> , 104, 61-69	2.4	3

175	Bioluminescent Low-Affinity Ca Indicator for ER with Multicolor Calcium Imaging in Single Living Cells. <i>ACS Chemical Biology</i> , <b>2018</b> , 13, 1862-1871	4.9	17
174	A Transient Rise in Free Mg Ions Released from ATP-Mg Hydrolysis Contributes to Mitotic Chromosome Condensation. <i>Current Biology</i> , <b>2018</b> , 28, 444-451.e6	6.3	74
173	Red fluorescent cAMP indicator with increased affinity and expanded dynamic range. <i>Scientific Reports</i> , <b>2018</b> , 8, 1866	4.9	36
172	Acid-Tolerant Monomeric GFP from <i>Olindias formosa</i> . <i>Cell Chemical Biology</i> , <b>2018</b> , 25, 330-338.e7	8.2	36
171	Biomimetic Chemical Sensing by Fluorescence Signals Using a Virus-like Particle-Based Platform. <i>ACS Sensors</i> , <b>2018</b> , 3, 87-92	9.2	3
170	Green monomeric photosensitizing fluorescent protein for photo-inducible protein inactivation and cell ablation. <i>BMC Biology</i> , <b>2018</b> , 16, 50	7.3	18
169	Fluorescent Proteins for Investigating Biological Events in Acidic Environments. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	50
168	Uninterrupted monitoring of drug effects in human-induced pluripotent stem cell-derived cardiomyocytes with bioluminescence Ca microscopy. <i>BMC Research Notes</i> , <b>2018</b> , 11, 313	2.3	3
167	A platform of BRET-FRET hybrid biosensors for optogenetics, chemical screening, and in vivo imaging. <i>Scientific Reports</i> , <b>2018</b> , 8, 8984	4.9	34
166	A bimodal Ca <sup>2+</sup> indicator toward spatiotemporally-scalable imaging. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , <b>2018</b> , WCP2018, SY32-4	0	
165	Highly biocompatible super-resolution fluorescence imaging using the fast photoswitching fluorescent protein Kohinoor and SPoD-ExPAN with Lp-regularized image reconstruction. <i>Microscopy (Oxford, England)</i> , <b>2018</b> , 67, 89-98	1.3	9
164	An improved inverse-type Ca <sup>2+</sup> indicator can detect putative neuronal inhibition in <i>Caenorhabditis elegans</i> by increasing signal intensity upon Ca <sup>2+</sup> decrease. <i>PLoS ONE</i> , <b>2018</b> , 13, e0194707	3.7	7
163	Spontaneously Blinking Fluorescent Protein for Simple Single Laser Super-Resolution Live Cell Imaging. <i>ACS Chemical Biology</i> , <b>2018</b> , 13, 1938-1943	4.9	9
162	Thermometers for monitoring cellular temperature. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , <b>2017</b> , 30, 2-9	16.4	25
161	Genetically encoded bioluminescent voltage indicator for multi-purpose use in wide range of bioimaging. <i>Scientific Reports</i> , <b>2017</b> , 7, 42398	4.9	42
160	Distinct intracellular Ca dynamics regulate apical constriction and differentially contribute to neural tube closure. <i>Development (Cambridge)</i> , <b>2017</b> , 144, 1307-1316	6.6	23
159	Fluorescence and Bioluminescence Imaging of Angiogenesis in Flk1-Nano-lantern Transgenic Mice. <i>Scientific Reports</i> , <b>2017</b> , 7, 46597	4.9	10
158	Recent progress in expanding the chemiluminescent toolbox for bioimaging. <i>Current Opinion in Biotechnology</i> , <b>2017</b> , 48, 135-141	11.4	33

157	Activity-Dependent Dynamics of the Transcription Factor of cAMP-Response Element Binding Protein in Cortical Neurons Revealed by Single-Molecule Imaging. <i>Journal of Neuroscience</i> , <b>2017</b> , 37, 1-10	6.6	25
156	Optical inactivation of synaptic AMPA receptors erases fear memory. <i>Nature Biotechnology</i> , <b>2017</b> , 35, 38-47	44.5	53
155	Intracellular trafficking of particles inside endosomal vesicles is regulated by particle size. <i>Journal of Controlled Release</i> , <b>2017</b> , 260, 183-193	11.7	8
154	High-Speed and Scalable Whole-Brain Imaging in Rodents and Primates. <i>Neuron</i> , <b>2017</b> , 94, 1085-1100.e6	13.9	65
153	Super-duper chemiluminescent proteins applicable to wide range of bioimaging <b>2017</b> ,		1
152	Methods for monitoring signaling molecules in cellular compartments. <i>Cell Calcium</i> , <b>2017</b> , 64, 12-19	4	9
151	Simultaneous imaging of multiple cellular events using high-accuracy fluorescence polarization microscopy. <i>Microscopy (Oxford, England)</i> , <b>2017</b> , 66, 110-119	1.3	4
150	Dynamic Organization of Chromatin Domains Revealed by Super-Resolution Live-Cell Imaging. <i>Molecular Cell</i> , <b>2017</b> , 67, 282-293.e7	17.6	226
149	Alpha-synuclein facilitates to form short unconventional microtubules that have a unique function in the axonal transport. <i>Scientific Reports</i> , <b>2017</b> , 7, 16386	4.9	12
148	Production of intense, pulsed, and point-like neutron source from deuterated plastic cavity by mono-directional kilo-joule laser irradiation. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 233506	3.4	8
147	Five Color Variants of Bright Luminescent Protein for Multi-Purpose Use in Wide Range of Bioimaging. <i>Seibutsu Butsuri</i> , <b>2017</b> , 57, 262-264	0	
146	Genetically encoded ratiometric fluorescent thermometer with wide range and rapid response. <i>PLoS ONE</i> , <b>2017</b> , 12, e0172344	3.7	50
145	Non-invasive phenotyping and drug testing in single cardiomyocytes or beta-cells by calcium imaging and optogenetics. <i>PLoS ONE</i> , <b>2017</b> , 12, e0174181	3.7	17
144	Dysregulation of a potassium channel, THIK-1, targeted by caspase-8 accelerates cell shrinkage. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2016</b> , 1863, 2766-2783	4.9	4
143	Two Bistable Switches Govern M Phase Entry. <i>Current Biology</i> , <b>2016</b> , 26, 3361-3367	6.3	48
142	Reversible Monolayer/Spheroid Cell Culture Switching by UCST-Type Thermoresponsive Ureido Polymers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 31524-31529	9.5	33
141	Fabrication of Ca <sup>2+</sup> -K <sup>+</sup> Image Sensor Using an Inkjet Method and Its Application to Living Cells. <i>ECS Transactions</i> , <b>2016</b> , 75, 243-249	1	3
140	The current trends and future prospect of neural activity measurement by genetically-encoded voltage indicators. <i>Drug Delivery System</i> , <b>2016</b> , 31, 119-126	0	

139	Current progress in genetically encoded voltage indicators for neural activity recording. <i>Current Opinion in Chemical Biology</i> , <b>2016</b> , 33, 95-100	9.7	18
138	Nonlinear Structured Illumination Using a Fluorescent Protein Activating at the Readout Wavelength. <i>PLoS ONE</i> , <b>2016</b> , 11, e0165148	3.7	4
137	General Anesthetic Conditions Induce Network Synchrony and Disrupt Sensory Processing in the Cortex. <i>Frontiers in Cellular Neuroscience</i> , <b>2016</b> , 10, 64	6.1	19
136	Ca(2+) monitoring in Plasmodium falciparum using the yellow cameleon-Nano biosensor. <i>Scientific Reports</i> , <b>2016</b> , 6, 23454	4.9	13
135	Five colour variants of bright luminescent protein for real-time multicolour bioimaging. <i>Nature Communications</i> , <b>2016</b> , 7, 13718	17.4	120
134	Dependence of fluorescent protein brightness on protein concentration in solution and enhancement of it. <i>Scientific Reports</i> , <b>2016</b> , 6, 22342	4.9	29
133	Nontrivial Effect of the Color-Exchange of a Donor/Acceptor Pair in the Engineering of Förster Resonance Energy Transfer (FRET)-Based Indicators. <i>ACS Chemical Biology</i> , <b>2016</b> , 11, 1816-22	4.9	18
132	Luminescence Imaging: (a) Multicolor Visualization of Ca(2+) Dynamics in Different Cellular Compartments and (b) Video-Rate Tumor Detection in a Freely Moving Mouse. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1461, 289-97	1.4	
131	Redox sensor proteins for highly sensitive direct imaging of intracellular redox state. <i>Biochemical and Biophysical Research Communications</i> , <b>2015</b> , 457, 242-8	3.4	28
130	Lateralization, maturation, and anteroposterior topography in the lateral habenula revealed by ZIF268/EGR1 immunoreactivity and labeling history of neuronal activity. <i>Neuroscience Research</i> , <b>2015</b> , 95, 27-37	2.9	14
129	Single-Molecule Imaging Reveals Dynamics of CREB Transcription Factor Bound to Its Target Sequence. <i>Scientific Reports</i> , <b>2015</b> , 5, 10662	4.9	30
128	A guide to use photocontrollable fluorescent proteins and synthetic smart fluorophores for nanoscopy. <i>Microscopy (Oxford, England)</i> , <b>2015</b> , 64, 263-77	1.3	31
127	Expanded palette of Nano-lanterns for real-time multicolor luminescence imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 4352-6	11.5	89
126	A fast- and positively photoswitchable fluorescent protein for ultralow-laser-power RESOLFT nanoscopy. <i>Nature Methods</i> , <b>2015</b> , 12, 515-8	21.6	58
125	Direct heating of a laser-imploded core by ultraintense laser-driven ions. <i>Physical Review Letters</i> , <b>2015</b> , 114, 195002	7.4	19
124	MagIC, a genetically encoded fluorescent indicator for monitoring cellular Mg2+ using a non-Förster resonance energy transfer ratiometric imaging approach. <i>Journal of Biomedical Optics</i> , <b>2015</b> , 20, 101203	3.5	12
123	Visible-wavelength two-photon excitation microscopy for fluorescent protein imaging. <i>Journal of Biomedical Optics</i> , <b>2015</b> , 20, 101202	3.5	16
122	Recent progress in luminescent proteins development. <i>Current Opinion in Chemical Biology</i> , <b>2015</b> , 27, 46-51	9.7	22

121	A Temporary Gating of Actin Remodeling during Synaptic Plasticity Consists of the Interplay between the Kinase and Structural Functions of CaMKII. <i>Neuron</i> , <b>2015</b> , 87, 813-26	13.9	85
120	C4-P-08Biocompatible super-resolution imaging of fast photoswitching fluorescent proteins by polarization demodulation/excitation angle narrowing. <i>Microscopy (Oxford, England)</i> , <b>2015</b> , 64, i137.2-i137 <sup>3</sup>		
119	A Temporary Gating of Actin Remodeling during Synaptic Plasticity Consists of the Interplay between the Kinase and Structural Functions of CaMKII. <i>Neuron</i> , <b>2015</b> , 88, 433	13.9	78
118	Real Time Imaging of Biological Phenomena with Super-duper Luminescent Proteins. <i>Cytologia</i> , <b>2015</b> , 80, 1-2	0.9	
117	Partial agonistic effects of pilocarpine on Ca(2+) responses and salivary secretion in the submandibular glands of live animals. <i>Experimental Physiology</i> , <b>2015</b> , 100, 640-51	2.4	8
116	Calcium signalling mediates self-incompatibility response in the Brassicaceae. <i>Nature Plants</i> , <b>2015</b> , 1, 15128	11.5	47
115	Threshold-free evaluation of near-surface diffusion and adsorption-dominated motion from single-molecule tracking data of single-stranded DNA through total internal reflection fluorescence microscopy. <i>Japanese Journal of Applied Physics</i> , <b>2015</b> , 54, 125601	1.4	13
114	Various Application of Fluorescent and Chemiluminescent Proteins. <i>Seibutsu Butsuri</i> , <b>2015</b> , 55, 305-310		0
113	Rotational motion of rhodamine 6G tethered to actin through oligo(ethylene glycol) linkers studied by frequency-domain fluorescence anisotropy. <i>Biophysics and Physicobiology</i> , <b>2015</b> , 12, 87-102	1.4	0
112	Spectral fingerprinting of individual cells visualized by cavity-reflection-enhanced light-absorption microscopy. <i>PLoS ONE</i> , <b>2015</b> , 10, e0125733	3.7	6
111	C5-O-04Genetically-Encoded Tools to Optically Control and Image Ca <sup>2+</sup> Dynamics. <i>Microscopy (Oxford, England)</i> , <b>2015</b> , 64, i73.1-i73	1.3	
110	C6-P-07Spectral fingerprinting of individual cells visualized by cavity-reflection-enhanced light-absorption microscopy. <i>Microscopy (Oxford, England)</i> , <b>2015</b> , 64, i143.2-i143	1.3	
109	C5-P-03An Expanded Color Palette of Nano-lanterns, the Super-brilliant Luminescent Proteins for Multicolor, Real-time Bioluminescence Imaging. <i>Microscopy (Oxford, England)</i> , <b>2015</b> , 64, i140.1-i140	1.3	
108	Nicotine exposure alters human vascular smooth muscle cell phenotype from a contractile to a synthetic type. <i>Atherosclerosis</i> , <b>2014</b> , 237, 464-70	3.1	37
107	Arl3 and LC8 regulate dissociation of dynactin from dynein. <i>Nature Communications</i> , <b>2014</b> , 5, 5295	17.4	8
106	In vivo visualization of subtle, transient, and local activity of astrocytes using an ultrasensitive Ca(2+) indicator. <i>Cell Reports</i> , <b>2014</b> , 8, 311-8	10.6	119
105	Optical control of the Ca <sup>2+</sup> concentration in a live specimen with a genetically encoded Ca <sup>2+</sup> -releasing molecular tool. <i>ACS Chemical Biology</i> , <b>2014</b> , 9, 1197-203	4.9	33
104	Quantitative measurement of intracellular protein dynamics using photobleaching or photoactivation of fluorescent proteins. <i>Microscopy (Oxford, England)</i> , <b>2014</b> , 63, 403-8	1.3	13

103	Statistical characterisation of single-stranded DNA motion near glass surface beyond diffusion coefficient. <i>Micro and Nano Letters</i> , <b>2014</b> , 9, 257-260	0.9	10
102	Genetically encoded Ca(2+) indicators; expanded affinity range, color hue and compatibility with optogenetics. <i>Frontiers in Molecular Neuroscience</i> , <b>2014</b> , 7, 90	6.1	12
101	Development of multichannel low-energy neutron spectrometer. <i>Review of Scientific Instruments</i> , <b>2014</b> , 85, 11E125	1.7	3
100	A snapshot of plasma metabolites in first-episode schizophrenia: a capillary electrophoresis time-of-flight mass spectrometry study. <i>Translational Psychiatry</i> , <b>2014</b> , 4, e379	8.6	63
99	Ultrasensitive imaging of Ca <sup>2+</sup> dynamics in pancreatic acinar cells of yellowameleon-nano transgenic mice. <i>International Journal of Molecular Sciences</i> , <b>2014</b> , 15, 19971-86	6.3	9
98	Characterizing a fast-response, low-afterglow liquid scintillator for neutron time-of-flight diagnostics in fast ignition experiments. <i>Review of Scientific Instruments</i> , <b>2014</b> , 85, 11E126	1.7	7
97	Photonuclear reaction based high-energy x-ray spectrometer to cover from 2 MeV to 20 MeV. <i>Review of Scientific Instruments</i> , <b>2014</b> , 85, 11D629	1.7	5
96	Real-time chemiluminescence imaging using nano-lantern probes. <i>Current Protocols in Chemical Biology</i> , <b>2014</b> , 6, 221-236	1.8	2
95	SuperNova, a monomeric photosensitizing fluorescent protein for chromophore-assisted light inactivation. <i>Scientific Reports</i> , <b>2013</b> , 3, 2629	4.9	100
94	Highlightable Ca <sup>2+</sup> indicators for live cell imaging. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 46-9	16.4	48
93	Improved orange and red Ca <sup>2+</sup> indicators and photophysical considerations for optogenetic applications. <i>ACS Chemical Neuroscience</i> , <b>2013</b> , 4, 963-72	5.7	155
92	Genetically encoded Ca(2+) indicators: properties and evaluation. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2013</b> , 1833, 1787-97	4.9	128
91	Smart fluorescent proteins: innovation for barrier-free superresolution imaging in living cells. <i>Development Growth and Differentiation</i> , <b>2013</b> , 55, 491-507	3	25
90	Extensive use of FRET in biological imaging. <i>Microscopy (Oxford, England)</i> , <b>2013</b> , 62, 419-28	1.3	30
89	Imaging intracellular free Ca <sup>2+</sup> concentration using yellow cameleons. <i>Cold Spring Harbor Protocols</i> , <b>2013</b> , 2013,	1.2	8
88	Saturated excitation of fluorescent proteins for subdiffraction-limited imaging of living cells in three dimensions. <i>Interface Focus</i> , <b>2013</b> , 3, 20130007	3.9	8
87	Rab6a releases LIS1 from a dynein idling complex and activates dynein for retrograde movement. <i>Nature Communications</i> , <b>2013</b> , 4, 2033	17.4	21
86	Flexible and dynamic nucleosome fiber in living mammalian cells. <i>Nucleus</i> , <b>2013</b> , 4, 349-56	3.9	35



85	Highlighted Ca <sup>2+</sup> imaging with a genetically encoded QagedQndicator. <i>Scientific Reports</i> , <b>2013</b> , 3, 1398	4.9	16
84	Luminescent proteins for high-speed single-cell and whole-body imaging. <i>Nature Communications</i> , <b>2012</b> , 3, 1262	17.4	206
83	Optogenetic activation during detector "dead time" enables compatible real-time fluorescence imaging. <i>Neuroscience Research</i> , <b>2012</b> , 73, 341-7	2.9	14
82	Cytoplasmic Ca <sup>2+</sup> changes dynamically during the interaction of the pollen tube with synergid cells. <i>Development (Cambridge)</i> , <b>2012</b> , 139, 4202-9	6.6	68
81	The molecular mechanism of apoptosis upon caspase-8 activation: quantitative experimental validation of a mathematical model. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2012</b> , 1823, 1825-40	4.9	39
80	Local nucleosome dynamics facilitate chromatin accessibility in living mammalian cells. <i>Cell Reports</i> , <b>2012</b> , 2, 1645-56	10.6	133
79	Synchronized ATP oscillations have a critical role in prechondrogenic condensation during chondrogenesis. <i>Cell Death and Disease</i> , <b>2012</b> , 3, e278	9.8	26
78	In vivo imaging of hierarchical spatiotemporal activation of caspase-8 during apoptosis. <i>PLoS ONE</i> , <b>2012</b> , 7, e50218	3.7	19
77	Fluorescence imaging of potassium ions in living cells using a fluorescent probe based on a thrombin binding aptamer-peptide conjugate. <i>Chemical Communications</i> , <b>2012</b> , 48, 4740-2	5.8	30
76	Changes in cytosolic ATP levels and intracellular morphology during bacteria-induced hypersensitive cell death as revealed by real-time fluorescence microscopy imaging. <i>Plant and Cell Physiology</i> , <b>2012</b> , 53, 1768-75	4.9	20
75	Development of BRET based Ca <sup>2+</sup> Indicator. <i>Seibutsu Butsuri</i> , <b>2012</b> , 52, 030-031	0	
74	Ca <sup>2+</sup> regulation of mitochondrial ATP synthesis visualized at the single cell level. <i>ACS Chemical Biology</i> , <b>2011</b> , 6, 709-15	4.9	107
73	Quantitative comparison of genetically encoded Ca indicators in cortical pyramidal cells and cerebellar Purkinje cells. <i>Frontiers in Cellular Neuroscience</i> , <b>2011</b> , 5, 18	6.1	38
72	Imaging the dynamics of intracellular protein translocation by photoconversion of phamret-cybr/ROM. <i>Journal of Microscopy</i> , <b>2011</b> , 242, 250-61	1.9	
71	An expanded palette of genetically encoded Ca <sup>2+</sup> indicators. <i>Science</i> , <b>2011</b> , 333, 1888-91	33.3	895
70	Facilitated intracellular transport of TrkA by an interaction with nerve growth factor. <i>Developmental Neurobiology</i> , <b>2011</b> , 71, 634-49	3.2	8
69	Chromophore-assisted light inactivation of HaloTag fusion proteins labeled with eosin in living cells. <i>ACS Chemical Biology</i> , <b>2011</b> , 6, 401-6	4.9	42
68	Astrocyte calcium signaling transforms cholinergic modulation to cortical plasticity in vivo. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 18155-65	6.6	280

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1	In vivo brain activity imaging of interactively locomoting mice		1